

Amendments to the Claims

This listing of claims will replace the originally filed claims in the application.

Listing of Claims:

Claims 1 – 9 (cancelled).

Claim 10 (new): A hydrogen storage installation comprising:

- a) a liquid hydrogen tank (1) having an insulating jacket (2) made of cellular material incorporating at least one first metal screen (3),
- b) a pipeline (7) for extracting liquid hydrogen,
- c) a circuit (8) for discharging gaseous hydrogen, connected to the hydrogen inlet of a fuel cell (11) and having at least one portion (14) in a heat exchange relationship with the first screen,
- d) an electrical refrigerating machine (15) connected to the fuel cell (11) and having at least one cold part (16) in a heat exchange relationship at least with the first screen (3).

Claim 11 (new): The installation of claim 10, wherein the tank has at least one second thermal screen (4) also in a heat exchange relationship with a portion (13) of the discharge circuit (8).

Claim 12 (new): The installation of claim 11, wherein the second thermal screen (4) is positioned inside the first thermal screen (3).

Claim 13 (new): The installation of claim 12, wherein the second thermal screen (4) is an envelope with inherent stability.

Claim 14 (new): The installation of claim 10, wherein the insulating jacket (2) consists of at least two layers of polyurethane foam.

Claim 15 (new): The installation of claim 11, wherein at least one of the first and second thermal screens (3; 4) is composed of an assembly of at least two metal plates (31, 32).

Claim 16 (new): The installation of claim 15, wherein at least one part (14A; 14B) of the portion (14; 13) of the circuit (8) in a heat exchange relationship with the screen (3; 4) is formed of zones deformed into a trough (34; 35) of said plates (31; 32).

Claim 17 (new): A vehicle comprising a hydrogen storage installation of claim 10.

Claim 18 (new): The vehicle of claim 17, wherein the fuel cell participates in the propulsion of the vehicle.